CLAIMS

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1. A compound in accord with formula I:

$$Q_Ar^1-A_Ar^2$$

I;

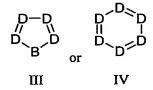
and pharmaceutically-acceptable salts thereof, wherein:

Q is a moiety of formula II

II;

-A- is selected from -O-, -S-, or -NR¹-, or is a bond directly connecting Ar¹ and Ar²;

Ar¹ is selected from formula III or IV:



wherein B is O, S, or NR¹;

R¹ is independently at each occurrence selected from hydrogen or R³;

D is independently at each occurrence selected from N or CR², provided that D is N at no more than two occurrences;

R² is independently at each occurrence selected from hydrogen, -R³, -C₂-C₆alkenyl, -C₂-C₆alkynyl, halogen, -CN, -NO₂, -C(O)R⁴, -S(O)_nR⁵, -NR⁶R⁷, -OR⁸, Q or a bond, provided that R² is Q at one occurrence, and at one occurrence is a bond connecting Ar¹ to A, or when -A- is a bond, to Ar²;

 R^3 is selected from an unsubstituted straight-chained, branched, or cyclic C_1 - C_6 alkyl group, or selected from a straight-chained, branched, or cyclic C_1 - C_6 alkyl group substituted with up to five halogen atoms, and up to two substituents selected from: C_2 - C_6 alkynyl, -CN, $-C(O)R^4$, $-S(O)_nR^5$, $-NR^6R^7$, or $-OR^8$;

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R⁴ is independently at each occurrence selected from hydrogen, R⁹, -NR¹⁰R¹¹, or -OR⁸;

 R^5 is independently at each occurrence selected from hydrogen, R^9 , or $-NR^{10}R^{11}$; R^6 and R^7 are independently at each occurrence selected from hydrogen, R^9 , - $C(O)R^4$ or $-S(O)_nR^5$, or in combination at any one occurrence of $-NR^6R^7$ are $(CH_2)_pG(CH_2)_q$ where G is O, S, NR^8 or a bond;

R⁸ is selected from hydrogen or R⁹;

R⁹ is selected from an unsubstituted straight-chained, branched, or cyclic C₁-C₆alkyl group, or selected from a straight-chained, branched, or cyclic C₁-C₆alkyl group substituted with up to five halogen atoms, and up to one substituent selected from: C₂-C₆ alkynyl, -CN, -NR¹⁰R¹¹ -OR¹²;

 R^{10} and R^{11} are independently at each occurrence selected from hydrogen, R^{12} , $-C(O)R^{12}$, $-S(O)_nR^{12}$, or in combination at any one occurrence of $-NR^{10}R^{11}$ are $(CH_2)_pJ(CH_2)_q$ where J is O, S, NH, NR^{12} or a bond;

R¹² is selected from an unsubstituted straight-chained, branched, or cyclic C₁-C₆alkyl group, or selected from a straight-chained, branched, or cyclic C₁-C₆alkyl group substituted with up to five halogen atoms;

Ar² is selected from an unsubstituted 5- or 6-membered aromatic or heteroaromatic ring containing zero to two nitrogen atoms, zero to one oxygen atoms, and zero to one sulfur atoms, or selected from an 8-, 9- or 10-membered fused aromatic or heteroaromatic ring system containing zero to three nitrogen atoms, zero to one oxygen atom, and zero to one sulfur atom, or is selected from a 5- or 6-membered aromatic or heteroaromatic ring containing zero to two nitrogen atoms, zero to one oxygen atoms, and zero to one sulfur atoms, or is selected from an 8-, 9- or 10-membered fused aromatic or heteroaromatic ring system containing zero to three nitrogen atoms, zero to one oxygen atom, and zero to one sulfur atom where each foregoing Ar² moiety may bear one to three substituents selected from R³, C₂-C₆alkenyl, C₂-C₆alkynyl, halogen, -CN, -NO₂, -C(O)R⁴, -S(O)_nR⁵, -NR⁶R⁷, -OR⁸;

n at each occurrence is 0, 1, or 2;

p at each occurrence is 2, 3, or 4;

q at each occurrence is 0, 1, or 2.

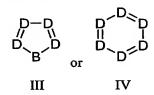
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2. A compound according to Claim 1, wherein:

Arl is selected from formula III or IV:



B is O, S, or NR¹;

R¹ is independently at each occurrence selected from hydrogen or R³;

D is independently at each occurrence selected from N or CR², provided that D is N at two occurrences;

 R^2 is independently at each occurrence selected from hydrogen, $-R^3$, halogen, -CN, $-NO_2$, $-C(O)R^4$, $-S(O)_nR^5$, $-NR^6R^7$, $-OR^8$, Q or a bond, provided that R^2 is Q at one occurrence, and at one occurrence is a bond connecting Ar^1 to A, or when -A- is a bond, to Ar^2 ;

 R^3 is an unsubstituted straight-chained, branched, or cyclic C_1 - C_6 alkyl group, or a straight-chained, branched, or cyclic C_1 - C_6 alkyl group substituted with up to five halogen atoms, and up to two substituents selected from: -CN, -C(O) R^4 , -S(O) $_nR^5$, -NR $^6R^7$, or -OR 8 :

 R^4 , R^5 , R^6 , R^7 and R^8 are independently at each occurrence selected from hydrogen or R^9 ;

 R^9 is selected from an unsubstituted straight-chained, branched, or cyclic C_1 - C_6 alkyl group, or is selected from a straight-chained, branched, or cyclic C_1 - C_6 alkyl group substituted with up to five halogen atoms, and up to one substituent selected from: -CN, - $NR^{10}R^{11}$ - OR^{12} ;

R¹⁰ and R¹¹ are at each occurrence hydrogen;

R¹² is selected from an unsubstituted straight-chained, branched, or cyclic C₁-C₆alkyl group, or selected from a straight-chained, branched, or cyclic C₁-C₆alkyl group substituted with up to five halogen atoms;

-A- is selected from -O-, -S-, or -NR¹-, or is a bond directly connecting Ar¹ and Ar²;

Ar² is selected from unsubstituted phenyl; 2-pyridyl, 3-pyridyl or 4-pyridyl;
2-pyrimidyl, 4-pyrimidyl or 5-pyrimidyl; 2-pyrazinyl or 3-pyrazinyl; 2-furyl or 3-furyl;

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2-thiophenyl or 3-thiophenyl; 1-pyrrolyl, 2-pyrrolyl or 3-pyrrolyl; 2-quinazolyl, 4-quinazolyl or 5-quinazolyl; 2-oxazolyl, 4-oxazolyl or 5-oxazolyl; 2-imidazolyl, 4-imidazolyl or 5-imidazolyl; 1-naphthyl or 2-naphthyl; 2-quinolyl, 3-quinolyl, 4-quinolyl, 5-quinolyl, 6-quinolyl, 7-quinolyl or 8-quinolyl; 1-isoquinolyl, 3-isoquinolyl, 4-isoquinolyl; 5-isoquinolyl, 6-isoquinolyl, 7-isoquinolyl or 8-isoquinolyl; 2-benzofuranyl, 3-benzofuranyl, 5-benzofuranyl, 6-benzofuranyl or 7-benzofuranyl, 2-benzo[b]thiophenyl, 3-benzo[b]thiophenyl, 4-benzo[b]thiophenyl, 5-benzo[b]thiophenyl or 7-benzo[b]thiophenyl; 2-indolyl, 3-indolyl, 4-indolyl, 5-indolyl, 6-indolyl or 7-indolyl; 2-benzoxazolyl, 4-benzoxazolyl, 5-benzoxazolyl, 6-benzoxazolyl; or 7-benzoxazolyl; 2-benzthiazolyl, 4-benzthiazolyl, 5-benzthiazolyl, 6-benzthiazolyl or 7-benzthiazolyl; or is selected from any foregoing Ar² moiety substituted with one to three substituents selected from R³, C2-C6 alkenyl, C2-C6 alkynyl, halogen, -CN, -NO2, -C(O)R⁴, -S(O)_nR⁵, -NR⁶R⁻, -OR˚8;

n at each occurrence is 0, 1, or 2.

- 3. A compound according to Claim 1, wherein: R^2 is Q at one occurrence and is a bond connecting Ar^1 to A at one occurrence and otherwise is hydrogen.
- 4. A compound according to Claim 1, wherein Q and -A-Ar² are in a 1,3 relationship with one another on Ar¹.
 - 5. A compound according to Claim 1, wherein -A- is a bond directly coneccting Ar¹ and Ar².
- 6. A compound according to Claim 1, wherein Ar is a moiety of formula III.
 - 7. A compound according to Claim 1 wherein Ar¹ is selected from a furan ring or a thiophene ring.
- 8. A compound according to Claim 1, wherein Ar¹ is a moiety of formula III and B is selected from O or S.

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- 9. A compound according to Claim 1, wherein Ar¹ is a moiety of formula III and B is S.
- 10. A compound according to Claim 1, wherein Ar¹ is a moiety of formula III and D is CR² where R² is Q at one occurrence and is a bond connecting Ar¹ to A at one occurrence and otherwise is hydrogen.
 - 11. A compound according to Claim 1, wherein R³ is selected from: methyl, ethyl,
- linear, cyclic or branched propyl, butyl, pentyl or hexyl,
 ethenyl or 1-propenyl, 2-propenyl or 3-propenyl,
 linear, branched or cyclic butenyl, pentenyl or hexenyl,
 ethynyl or propynyl,
 chloro, bromo, fluoro or iodo, -CN, -NO₂, -C(O)R⁴, -S(O)_nR⁵, -NR⁶R⁷ or -OR⁸;

R⁴ is independently at each occurrence selected from hydrogen, R⁹, -NR¹⁰R¹¹, -OR⁸ trifluoromethyl, trifluoromethyl, methoxymethyl, trifluoromethoxymethyl, methoxymethyl or trifluoromethoxyethyl;

R⁵ is independently at each occurrence selected from hydrogen, R⁹, or -NR¹⁰R¹¹; R⁶ and R⁷ are independently at each occurrence selected from hydrogen, R⁹, -

C(O)R⁴, -S(O)_nR⁵, or in combination at any one occurrence of -NR⁶R⁷ are (CH₂)_pG(CH₂)_q where G is O, S, NR⁸ or a bond;

R⁸ is selected from hydrogen or R⁹;

R9 is selected from

methyl, ethyl,

linear, cyclic or branched propyl, butyl, pentyl or hexyl ethenyl or 1-propenyl, 2-propenyl or 3-propenyl linear, branched or cyclic butenyl, pentenyl or hexenyl, ethynyl or propynyl,

where any foregoing R⁹ moiety may bear up to five chloro, bromo, fluoro or iodo atoms, and up to one substituent selected from:

 R^{10} and R^{11} are independently at each occurrence selected from hydrogen, R^{12} , -C(O) R^{12} , -S(O) $_nR^{12}$, or in combination at any one occurrence of -N $R^{10}R^{11}$ are (CH₂) $_p$ J(CH₂) $_q$ where J is O, S, NH, NR¹² or a bond;

R¹² is

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methyl, ethyl,

linear, cyclic or branched propyl, butyl, pentyl or hexyl ethenyl or 1-propenyl, 2-propenyl or 3-propenyl linear, branched or cyclic butenyl, pentenyl or hexenyl, ethynyl or propynyl,

where any foregoing R¹² mojety may bear up to five chloro, bromo, fluoro, iodo atoms, 10 Ar² is selected from unsubstituted phenyl; 2-pyridyl, 3-pyridyl or 4-pyridyl; 2-pyrimidyl, 4-pyrimidyl or 5-pyrimidyl; 2-pyrazinyl or 3-pyrazinyl; 2-furyl or 3-furyl; 2-thiophenyl or 3-thiophenyl; 1-pyrrolyl, 2-pyrrolyl or 3-pyrrolyl; 2-quinazolyl, 4quinazolyl or 5-quinazolyl; 2-oxazolyl, 4-oxazolyl or 5-oxazolyl; 2-imidazolyl, 4imidazolyl or 5-imidazolyl; 1-naphthyl or 2-naphthyl; 2-quinolyl, 3-quinolyl, 4-quinolyl, 5-15 quinolyl, 6-quinolyl, 7-quinolyl or 8-quinolyl; 1-isoquinolyl, 3-isoquinolyl, 4-isoquinolyl; 5-isoquinolyl, 6-isoquinolyl, 7-isoquinolyl or 8-isoquinolyl; 2-benzofuranyl, 3benzofuranyl, 4-benzofuranyl, 5-benzofuranyl, 6-benzofuranyl or 7-benzofuranyl, 2benzo[b]thiophenyl, 3-benzo[b]thiophenyl, 4-benzo[b]thiophenyl, 5-benzo[b]thiophenyl, 6-benzo[b]thiophenyl or 7-benzo[b]thiophenyl; 2-indolyl, 3-indolyl, 4-indolyl, 5-indolyl, 20 6-indolyl or 7-indolyl; 2-benzoxazolyl, 4-benzoxazolyl, 5-benzoxazolyl, 6-benzoxazolyl; or 7-benzoxazolyl; 2-benzthiazolyl, 4-benzthiazolyl, 5-benzthiazolyl, 6-benzthiazolyl or 7benzthiazolyl; or any foregoing Ar² moiety substituted with 1, 2 or 3 R³ substituents.

12. A compound according to Claim 1, selected from:
 (R)-3'-(5-phenyl-thiophen-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 (R)-3'-[5-(4-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 (R)-3'-[5-(3-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 (R)-3'-[5-(2-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 (R)-3'-[5-(thiophen-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-[5-(thiophen-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(furan-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(furan-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(thiazol-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(thiazol-4-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
 - (R)-3'-[5-(thiazol-5-yl)thiophen-2-yl] spiro[1-azabicyclo[2.2.2] octan-3,5'-oxazolidin]-2'-new and the spirolation of the spi
- 10 one;
 - (R)-3'-(4-phenylthiophen-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[4-(4-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(3-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(2-pyridyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[4-(thiophen-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiophen-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(furan-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[4-(furan-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiazol-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiazol-4-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- 25 (R)-3'-[4-(thiazol-5-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-(2-phenylthiophen-4-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(4-pyridyl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(3-pyridyl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(2-pyridyl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(thiophen-2-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-[2-(thiophen-3-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(furan-2-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(furan-3-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- s (R)-3'-[2-(thiazol-2-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(thiazol-4-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
 - (R)-3'-[2-(thiazol-5-yl)thiophen-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-
- 10 one

- (R)-3'-(5-phenylfuran-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(4-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(3-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(2-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(thiophen-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(thiophen-3-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(furan-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(furan-3-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(thiazol-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- 20 (R)-3'-[5-(thiazol-4-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(thiazol-5-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-(4-phenylfuran-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(4-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(3-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(2-pyridyl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiophen-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiophen-3-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(furan-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(furan-3-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiazol-2-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiazol-4-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[4-(thiazol-5-yl)furan-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-(2-phenylfuran-4-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(4-pyridyl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(3-pyridyl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(2-pyridyl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(thiophen-2-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(thiophen-3-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(furan-2-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(furan-3-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(thiazol-2-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[2-(thiazol-4-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one, or
- (R)-3'-[2-(thiazol-5-yl)furan-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one, or a pharmaceutically-acceptable salt thereof.
- 13. A compound according to Claim 1, selected from:
- (R)-3'-{5-[3-(N,N-dimethylcarbamoyl)phenyl]thiophen-2-yl}spiro[1
 - azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-{5-[3-(N,N-diethylcarbamoyl)phenyl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - $(R) 3' \{5 [3 (pyrrolidine 1 carbonyl) phenyl] thiophen 2 yl\} spiro[1 azabicyclo[2.2.2] octanically spiro[1 azabicyclo[2.2.2] octanically spiro[2.2.2] octanically spiro[3 azabicyclo[2.2.2] octanically spiro[3 azabicyclo[2 azabicyclo[2$
- 20 3,5'-oxazolidin]-2'-one;

- (R)-3'-{5-[3-(piperidine-1-carbonyl)phenyl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-{5-[3-(morpholine-4-carbonyl)phenyl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(3-aminophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-{5-[3-(N,N-dimethylamino)phenyl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-{5-[3-(propionylamino)phenyl]thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-{5-[3-(butyrylamino)phenyl]thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-{5-[3-(benzoylamino)phenyl]thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-{5-[3-(2-propoxy)phenyl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(3-trifluoromethoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(quinolin-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
 - (R)-3'-[5-(quinolin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-
 - (R)-3'-[5-(quinolin-4-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(quinolin-5-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
- (R)-3'-[5-(quinolin-6-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(quinolin-7-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(quinolin-8-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(pyrimidin-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(pyrimidin-4-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
- 25 (R)-3'-[5-(pyrimidin-5-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-(2-phenylthiazol-4-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(2-pyridyl)thiazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(3-pyridyl)thiazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(4-pyridyl)thiazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-(2-phenylthiazol-5-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[2-(2-pyridyl)thiazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-[2-(3-pyridyl)thiazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(4-pyridyl)thiazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[5-(2-pyridyl)-1,3,4-thiadiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[5-(3-pyridyl)-1,3,4-thiadiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one: (R)-3'-(5-phenyl-1,3,4-oxadiazol-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'one: (R)-3'-(5-phenyloxazol-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[5-(2-pyridyl) oxazol-2-yl] spiro[1-azabicyclo[2.2.2] octan-3,5'-oxazolidin]-2'-one;10 (R)-3'-[5-(3-pyridyl)thiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[5-(4-pyridyl)thiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-(4-phenyloxazol-2-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[4-(2-pyridyl)oxazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[4-(3-pyridyl)thiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[4-(4-pyridyl)thiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-(2-phenyloxazol-4-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(2-pyridyl)oxazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(3-pyridyl)thiazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(4-pyridyl)thiazol-4-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-(2-phenyloxazol-5-yl)spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(2-pyridyl)oxazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(3-pyridyl)thiazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R)-3'-[2-(4-pyridyl)thiazol-5-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; (R) - 3' - [5 - (2 - pyridyl) - 1, 3, 4 - oxadiazol - 2 - yl] spiro[1 - azabicyclo[2.2.2] octan - 3, 5' - oxazolidin] - (R) - (2 - pyridyl) - (R) - (2 - pyridyl) - (R) - (R2'-one: (R)-3'-[5-(3-pyridyl)-1,3,4-oxadiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; and (R)-3'-[5-(4-pyridyl)-1,3,4-oxadiazol-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - 14. A compound according to Claim 1, selected from:

(R)-3'-[5-(2-fluorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:

- (R)-3'-[5-(3-fluorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
- (R)-3'-[5-(4-fluorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(2-chlorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
 - (R)-3'-[5-(3-chlorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-
- 10 one
 - (R)-3'-[5-(4-chlorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one:
 - (R)-3'-[5-(3,4-dichlorophenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(3-methylphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(4-methylphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(3-methoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(4-methoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(3-methoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- 25 (R)-3'-[5-(3-trifluoromethylphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(4-trifluoromethylphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(3-trifluoromethoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(4-trifluoromethoxyphenyl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

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(R)-3'-[5-(naphthalen-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

- (R)-3'-[5-(benzofuran-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(benzo[b]thiophen-2-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(2-fluoropyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(2-chloropyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(2-methoxypyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-
 - (R)-3'-[5-(2-aminopyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-{5-[2-(N,N-dimethylamino)pyridin-3-yl]thiophen-2-yl}spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;

oxazolidin]-2'-one;

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- (R)-3'-[5-(5-chloropyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
- (R)-3'-[5-(5-methoxypyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one;
 - (R)-3'-[5-(5-aminopyridin-3-yl)thiophen-2-yl]spiro[1-azabicyclo[2.2.2]octan-3,5'-oxazolidin]-2'-one; and
 - $\label{eq:continuous} $$(R)-3'-\{5-[5-(N,N-\text{dimethylamino})\text{pyridin-3-yl}\}$ spiro[1-\text{azabicyclo}[2.2.2]\text{octan-3,5'-oxazolidin}]-2'-one.$
 - 15. A compound according to Claim 1, wherein one or more of the atoms of said compound is a radioisotope of said atom.
 - 16. A compound according to Claim 15, wherein the radioisotope is tritium.
 - 17. A method for the discovery of novel medicinal compounds which bind to and modulate the activity, by agonism, partial agonism, or antagonism, of the α 7 nicotinic

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acetylcholine receptor comprising measuring the displacement of a compound according to Claim 15 from an α 7 nicotinic acetylcholine receptor

- 18. A method of treatment or prophylaxis of a human disease or condition in which activation of the α7 nicotinic receptor is beneficial which comprises administering a therapeutically-effective amount of a compound according to Claim 1.
 - 19. The method of Claim 18, wherein said human disease or condition is selected from neurological disorders, psychotic disorders or intellectual impairment disorders.
 - 20. The method of Claim 18, wherein said human disease or condition is selected from Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, anxiety, schizophrenia, mania or manic depression.
 - 21. A method of treatment for jetlag, inducing cessation of smoking, nicotine addiction, craving, pain, and for ulcerative colitis, which comprises administering a therapeutically effective amount of a compound according to Claim 1.
 - 22. A pharmaceutical composition comprising a compound according to Claim 1, an enantiomer thereof or a pharmaceutically-acceptable salt thereof, and a pharmaceutically-acceptable diluent or carrier.
- 23. A method of treating or preventing a condition or disorder arising from dysfunction of nicotinic acetylcholine receptor neurotransmission in a mammal comprising administering a therapeutically effective amount of a pharmaceutical composition according to Claim 22, to said mammal effective in treating or preventing such disorder or condition.

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- 24. A method for the treatment or prophylaxis of a human disease or condition in which activation of the α 7 nicotinic receptor is beneficial comprising administering a therapeutically effective amount of a pharmaceutical composition according to Claim 22.
- 5 25. The method of Claim 24, wherein said human disease or condition is selected from: neurological disorders, psychotic disorders or intellectual impairment disorders.
 - 26. The method of Claim 25, wherein said human disease or condition is selected from: Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, anxiety, schizophrenia, mania, manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapse, jetlag, cessation of smoking, nicotine addiction including that resulting from exposure to products containing nicotine, craving, pain, and ulcerative colitis.

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- 27. The use of a compound according to Claim 1, in the manufacture of a medicament for the treatment or prophylaxis of diseases or conditions in which activation of the α 7 nicotinic receptor is beneficial, neurological disorders, psychotic disorders, intellectual impairment disorders, Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, anxiety, schizophrenia, mania or manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, or neurodegenerative disorders in which there is loss of cholinergic synapses.
- 28. The use of a compound according to Claim 1, in the manufacture of a medicament for the prophylaxis jetlag, pain, or ulcerative colitis.
 - 29. The use of a compound according to Claim 1, in the manufacture of a medicament for facilitating the cessation of smoking or the treatment of nicotine addiction or craving including that resulting from exposure to products containing nicotine.